

# technocamps

Inspiring | Creative | Fun  
Ysbrydoledig | Creadigol | Hwyl



[www.technocamps.com](http://www.technocamps.com)



## LEGO Bowling

The LEGO Mindstorms NXT is a programmable robotics kit, allowing us to create various robots using our building skills and most importantly our programming skills. During this workshop the groups will be introduced to the NXT kits to create a bowling robot. The groups will be creating a robot that will race forward until it detects the colour on the pins/on the floor identifying where the pins are and will then stop. Once this has been achieved the robot should move backward until it detects the green starting line of the bowling alley. This will be achieved in groups, working together to achieve the goal and in the meantime improving their team-working skills. The robot that knocks over the most pins during the game wins!



### Skills

- Problem Solving
- Communication
- Improving Own Learning and Performance
- Working with Others
- ICT
- Numeracy
- Creativity

### Key Learning Outcomes

- To be able to successfully build a LEGO Mindstorm Robot.
- Acquire skills to program a LEGO Mindstorm Robot.
- Understanding and recognising basic coding constructs.
- To work as a group to achieve the outlined task.

### Workshop Outline

- Build and program the LEGO Mindstorm robot to solve the assigned task.

### Why Technocamps?

Technocamps is an exciting project that provides free workshops to young people on programming, robotics, game design, app development and much more... It is about getting young people (11-19) in Wales excited about Computer Science and STEM and challenging them to think about the world around them in a different way.